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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/677,567		10/01/2003	David M. Eschborn	H0004088	9295		
128	7590	09/13/2006		EXAM	EXAMINER		
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P O BOX	JMBIA RC 2245	DAD	ART UNIT	PAPER NUMBER			
MORRIS?	rown, ni	07962-2245	3661				
				DATE MAILED: 09/13/200	DATE MAILED: 09/13/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Ententiates for the may be available under the provision of 3°CFR 1.18(a), in no event, however, may a reply be finely find  If NO period for reply is specified above, the maximum statutory period will exply and will exply and will exply the STA (5) MONTHS from the mailing date of this communication.  Pallut for reply within the set or centrade period for reply will, by statule, cauche is application become ARANDONE) (30 u.S. C. § 133).  Any reply received by the Office lister than threa months after the mailing date of this communication, even if timely filled, may reduce any sometop facilities and application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 c.D. 11, 453 O.G. 213.  Disposition of Claims  4\(\text{Q}\) Claim(s) \(\frac{1.32}{3.35}\) is/are pending in the application.  4a) Of the above claim(s) \(\frac{3.32}{3.5}\) is/are withdrawn from consideration.  5\(\text{Q}\) Claim(s) \(\frac{1.32}{3.5}\) is/are rejected.  7\(\text{Q}\) Claim(s) \(\frac{1.32}{3.5}\) is/are rejected to.  8\(\text{Q}\) Claim(s) \(\frac{1.32}{3.5}\) is/are objected to.  8\(\text{Q}\) Claim(s) \(\frac{1.32}{3.5}\) is/are objected to by the Examiner.  4\(\text{Application Papers}\)  9\(\text{Q}\) The specification is objected to by the Examiner.  10\(\text{D}\) The drawing(s) filed on \(\frac{1.32}{3.5}\) is/are withdrawn from consideration is objected to. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11\(\text{Q}\) The earth or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12\			Applicat	ion No.	Applicant(s)	Applicant(s)				
CUONGH NGUYEN  3661  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  If NO period for reply is appointed above, the maintenance of the communication of the period for reply is appointed to the application is equilibrially and will easily state. State 9 (shouth The form the maining date of this communication.  Failur to reply with the set or excelled period for reply is application and explication to seem a AbmoNDINE (30 S. § 130).  Sealor to reply with the set or excelled period for reply with state 1 the maining date of this communication, even if timely filed, may reduce any sealor of the communication.  Failur to reply with the set or excelled period for reply with set the maining date of this communication, even if timely filed, may reduce any set to see a set of the communication, even if timely filed, may reduce any set to see a set of the communication, even if timely filed, may reduce any set to see a set of the communication, even if timely filed, may reduce any set to see a set of the communication.  State 1		Office Action Summan	10/677,5	567	ESCHBORN ET	AL.				
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### Status of the claims

1. This Office Action is the answer to the amendment filed on 6/26/2006. Claims 1-32 are currently pending; claims 33-35 are withdrawn.

## Drawing

2. This application has been filed with 7 figures of formal drawings, and they are accepted for examinations.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office Action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-10, 23, 28-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gould et al. (Pub. No. US 2004/0106404 A1).
- A. Ref. to claims 1, and 23: Gould et al. suggest a method/apparatus for monitoring an aircraft accessory, comprising:
- sensing baseline parametric data during operation of the aircraft accessory during an acceptance test procedure (see Gould et al., FIG.3, refs. 52, and 54);
- storing said sensed baseline parametric data (this must be done by Gould et al., since an aircraft contains a big number of components that have their own unique data that stored in a computer system see the abstract);

- sensing real-time operational parametric data (see Gould et al., FIG.3, ref. 56 Gould et al. suggest that feature with "COMPUTER/SERVER QUERIES AIRCRAFT SYSTEMTS FOR ACTUAL CONFIGURATION IDENTITY OF AIRCRAFT");
- comparing the sensed real-time operational parametric data with the stored baseline parametric data (Gould et al. did comparison of actual configuration and authorized/based line configuration data, see Gould et al., FIG.3, refs. 60, and 62); and
- determining a relationship between the sensed real-time operational parametric data and the stored baseline parametric data (that "relationship" is "a difference" in Boolean arithmetic 's comparison, see Gould et al., FIG.3, ref.62).

Gould et al. do not expressly disclose about using a based line data for comparison.

However, Gould et al. compare "ACTUAL CONFIGURATION IDENTITY" of an aircraft to an "AUTHORIZED CONFIGURATION IDENTITY" (see Gould et al., FIG.3 ref. 60).

Therefore, claimed "COMPARING THE SENSED REAL-TIME OPERATIONAL PARAMETRIC DATA WITH THE STORED BASELINE PARAMETRIC DATA" is suggested by Gould et al.

It would have been obvious to one of ordinary skill in the art at the time of invention to implement Gould et al.'s idea to suggest about COMPARING THE SENSED REAL-TIME OPERATIONAL PARAMETRIC DATA WITH THE STORED BASELINE PARAMETRIC DATA because this clearly defines an objective of comparison tasks that Gould et al. suggested.

Note: Claim 1 is merely directed to comparing sensing data with stored data, the examiner respectfully submits that the claimed meanings is not necessary required "for an aircraft accessory"

The claimed "relationship" could be a Boolean comparison result such as "greater than", or "smaller than", or "equal to"; these have been very well known results.

B. Ref. to claims 2-3: The applicants claim a step of storing a bill of materials for the aircraft accessory.

The rationales and reference for a rejection of claim 1 are incorporated.

Gould et al. also suggest about generating, and then storing a bill of material (that act is interpreting as "associating" a relationship//a comparison of data, see Gould et al., FIG.5, ref 80 "ADD UNIQUE PART NUMBER TO UPDATE SOFTWARE PACKAGE" as a result of testing an aircraft).

<u>C. Ref. to claims 4, and 29</u>: The rationales and reference for a rejection of claim 2 are incorporated.

The applicants claim a step of determining logistical requirements for the aircraft accessory based in part on a relationship of sensed data to stored baseline data.

Gould et al. also concern about a disadvantage of the existing system of managing an aircraft's configuration is the logistics problems (i.e., logistical requirements from analyzing data) associated with location, number, and type of software parts (see Gould et al., para. [0006]).

D. Ref. to claims 5, and 8: The applicants claim a step of storing/reporting the sensed real-time operational parametric data.

Gould et al. also suggest about storing/reporting sensed data for comparison with their computer system, see Gould et al., the abstract, FIG.5, ref 80 "ADD UNIQUE PART NUMBER TO UPDATE SOFTWARE PACKAGE" as a result of comparing stored data).

E. Ref. to claim 6: The applicants claim a step of downloading stored data and stored baseline data to another computer.

The examiner respectfully submits that downloading data to computers is a well-known act of computer users like Gould et al. for analysis/reports.

F. Ref. to claims 7, and 28: The applicants claim a step of determining maintenance requirements for an aircraft accessory based on a relationship between sensed data and stored baseline data.

Since every working part of an aircraft has been very critical; a step of determining a maintenance requirement is a must to guarantee for a safety record. Gould et al. suggest about determining a maintenance for an aircraft onboard health in FIG. 10, ref. 184 every time they use a MAINENANCE WORKSTATION 184.

G. Ref. to claim 9: The applicants claim a step of reporting data relating to a real-time deviation of sensed real-time parametric data from the stored baseline parametric data exceeding a level/range/number.

The examiner respectfully submits that downloading data to computers is a well-known act of computer users like Gould et al. for analysis/reports – above step merely claiming of reporting a certain difference comparing to stored data.

4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gould et al. (Pub. No. US 2004/0106404 A1), in view of Kim (US Pat. 4,964,125)

Gould et al. does not disclose a step of isolating a fault based on a relationship of stored operational data to stored baseline data.

However, Kim uses fault isolations to achieve a level acceptable to a user is an aircraft test (see Kim, claim 24).

It would have been obvious to one of ordinary skill in the art at the time of invention to implement Gould et al.'s idea with Kim's teaching of isolation a fault in aircraft testing for an advantage of reducing to a minimum because an aircraft failure must often be corrected quickly to restore service.

5. Claims 11-22, and 24-27, 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gould et al. (Pub. No. US 2004/0106404 A1), in view of Coyne (US Pub 20030144969 A1)

A. Ref. to claims 11-12, and 25-27: The rationales and reference for a rejection of claim 1 are incorporated.

Gould et al. determine a Boolean relationship between stored based line data and actual test data (see similar rationales as in rejected claim 1).

Gould et al. does not disclose that a model is a six-sigma parametric model of an aircraft accessory.

However, Coyne develops a model, and uses that model for teaching of a quality control program that requires detailed modeling, monitoring, and measurement of performance, see Coyne, para. [0224].

It would have been obvious to one of ordinary skill in the art at the time of invention to implement Gould et al.'s idea with Coyne's application of six-sigma parametric model for teaching of a quality control program that requires detailed modeling, monitoring, and measurement of performance because using a six sigma model is a strictly test for an aircraft (only 3.4 defects per million are allowed); that level depends on a number of factors and the cost-effectiveness achieving that degree of reduction in defects relative to the cost of the defects.

B. Ref. to claim 13: The applicants claim a step of downloading a model, and data as in claim 13. The examiner respectfully submits that downloading a model, and data to computers is a well-known act of computer users like Gould et al. for analysis/reports.

C. Ref. to claims 14-15: The applicants claim a step of determining a relationship of real-time data to each model/(a representation of certain data), then displaying those data.

Gould et al. determine a Boolean relationship between stored based line data and actual test data (see similar rationales as in rejected claim 1).

Gould et al. also suggest about providing a real-time remote display of the operating parameters of the aircraft 11 (see Gould et al., para. [0036]).

<u>D. Ref. to claim 16</u>: The applicants claim a step of displaying deviations of sensed data that exceeding a level/number/range.

The examiner respectfully submits that displaying data is a well-known act of computer users like Gould et al. for analysis/reports – above step merely claiming of reporting a certain difference/deviation comparing to stored data.

E. Ref. to claims 17, and 19: The applicants claim a step of determining maintenance requirements for the aircraft accessory based on a relationship of sensed data to each parametric model.

Since every working part of an aircraft has been very critical; a step of determining a maintenance requirement is a must to guarantee for a safety record. Gould et al. suggest about determining a maintenance for an aircraft onboard health in FIG. 10, ref. 184 every time they use a MAINENANCE WORKSTATION 184.

F. Ref. to claims 18, and 24: The applicants claim a step/apparatus of associating a relationship between sensed data and a model with an entry in a bill of materials.

The rationales and reference for a rejection of claim 1 are incorporated.

Gould et al. also suggest about generating, and then storing a bill of material (that act is interpreting as "associating" a relationship/a comparison of data/model, see Gould et al., FIG.5, ref 80 "ADD UNIQUE PART NUMBER TO UPDATE SOFTWARE PACKAGE" as a result of testing an aircraft's data).

G. Ref. to claim 20: The applicants claim a step of determining logistical requirements for an aircraft accessory on a relationship of the stored data.

The rationales and reference for a rejection of claim 11 are incorporated.

Gould et al. also concern about a disadvantage of the existing system of managing an aircraft's configuration is the logistics problems (i.e., logistical requirements) associated with location, number, and type of software parts (see Gould et al., para. [0006]).

H. Ref. to claim 21: The applicants claim a step of linking a bill of material's entry with stored data/model.

The rationales and reference for a rejection of claim 20 are incorporated.

Gould et al. also suggest about generating, and then storing a bill of material (that act is interpreting as associating/linking a relationship, see Gould et al., FIG.5, ref 80 "ADD UNIQUE PART NUMBER TO UPDATE SOFTWARE PACKAGE" as a result of testing an aircraft).

<u>I. Ref. to claim 22</u>: The rationales and reference for a rejection of claim 20 are incorporated.

The applicants claim a step of determining logistical requirements for an aircraft accessory based on a relationship of related data.

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Gould et al. also concern about a disadvantage of the existing systems of managing an aircraft's configuration is the logistics problems (i.e., logistical requirements) associated with location, number, and type of software parts – these are related data (see Gould et al., para. [0006]).

G. Ref. to claims 30-32: The applicants claim an apparatus wherein a data sensor, a memory, and a monitor are integral to an aircraft accessory.

The examiner respectfully submits that above components can be integrated on an builtin Automated Test Equipment (ATE) module for convenient because an aircraft accessory requires many routine tests that can be performed by a pilot, or a mechanic.

#### Conclusion

- 6. Claims 1-32 are not patentable.
- 7. Note: The claimed "relationship" is interpreted as a Boolean comparison result such as "greater than", or "smaller than", or "equal to"; these have been very well known comparative relationships.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759. The examiner can normally be reached on 9:30 am 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax number for the organization where this application is assigned is 571-273-6759.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Please provide support, with page and line numbers, for any amended or new claim in an effort to help advance prosecution; otherwise any new claim language that is introduced in an amended or new claim may be considered as new matter, especially if the Application is a Jumbo Application.

CUONG () H. NGUYEN
Primary Examiner
Art Unit 3661